

REMARKS/ARGUMENTS

Favorable reconsideration of this application is respectfully requested.

Claims 1, 3-13, 16-20, and 22-29 are pending in the present application. Claims 2, 14, 15, and 21 have been canceled. Claims 1, 3, 4, 6-8, 10-13, 16-20, and 22-27 have been amended to address minor punctuation omissions, to change multiple dependent Claims 7, 8, 10-13, 20, 23-25, and 27 to be singly dependent, and to reposition features from canceled Claims 2, 14, 15, and 21 in other claims. As each of the amended claims finds clear support in the original claims, it is clear that no new matter has been introduced.

In the outstanding Official Action, Claims 7-13, 20-25, and 27 were objected to as improper multiple dependent claims that depended on other multiple dependent claims, Claims 1, 14, and 26 were rejected under 35 U.S.C. §102(e) as anticipated by Rinne (U.S. Patent No. 5,9987,063¹), and Claims 2-13, 15-25, and 27 were rejected under 35 U.S.C. §103(a) as being unpatentable over Rinne in view of Stott et al. (U.S. Patent No. 6,628,730, Stott).

Turning to the objection to Claims 7-13, 20-25, and 27 as being improper multiple dependent claims, the present amendment (that changes base multiple dependent Claims 7, 8, 10-13, 20, 23-25, and 27 to be singly dependent) is believed to overcome this objection. Accordingly, withdrawal of this claim objection is believed to be in order.

Before considering the prior art based rejections all primarily relying on Rinne, it is believed that a brief review of the present invention would be helpful. In this regard, the present invention includes methods of compensating for sampling frequency offset and local oscillator frequency offset in an OFDM receiver which samples a received multicarrier signal

¹ The examiner confirmed that this was the intended reference even though it was not separately cited on the PTO-892 form in a telephone discussion with Applicants' representative on May 27, 2005. The Examiner further noted that this reference was indicated by filed IDS papers to correspond to EP 0795985 that is listed on the FORM PTO-1449 that was filed. This reference is listed on a new FORM PTO-1449 included with an IDS being concurrently filed with this amendment.

and performs a Fourier Transform on the sampled signal to extract data therefrom. These methods further require performing a separate Fourier Transform on the sampled signal, the separate Fourier Transform being a partial and/or reduced Fourier Transform to derive phase values for a point or points thereof, and compensating for the sampling frequency offset or the local oscillator frequency offset in dependence on a difference in phase variations at respective points.

At the outset, it is noted that the rejections applied as to canceled Claims 2, 14, 15, and 21 are believed to be moot in light of the cancellation of these claims.

The above-noted rejections of Claim 1 and 26 under 35 U.S.C. §102(e) as anticipated by Rinne and Claims 3-13, 16-20, 22-25, and 27 under 35 U.S.C. §103(a) as being unpatentable over Rinne in view of Stott are traversed.

In this regard, both of these rejections are noted to appear to ignore that the rejected independent base claims and the claims that depend thereon all require an arrangement which performs a Fourier Transform to extract data and that this is achieved relative to DFT block 6 of Rinne that is used to generate data at the OUT terminal. These rejected claims all further require performing a partial and/or reduced Fourier Transform that cannot be read on the Discrete Fourier Transform (DFT) operation performed by the relied upon block 2 (DFT) of Fig. 3 of Rinne. In this regard, while col. 5, lines 44-50 suggest that a DFT can be calculated for “some subcarrier waves only,” this suggestion relates to block 6, not block 2, which is associated with performing a standard Discrete Fourier Transform (DFT) that cannot be reasonably said to be a partial and/or reduced Fourier Transform as all of the rejected claims require.

Thus, the required performance of a partial and/or reduced Fourier Transform in the manner claimed is not taught or suggested and the rejection of Claim 1 and 26 under 35 U.S.C. §102(e) as anticipated by Rinne and the rejection of Claims 3-13, 16-20, 22-25, and

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Reply to Office Action of 04/29/2005

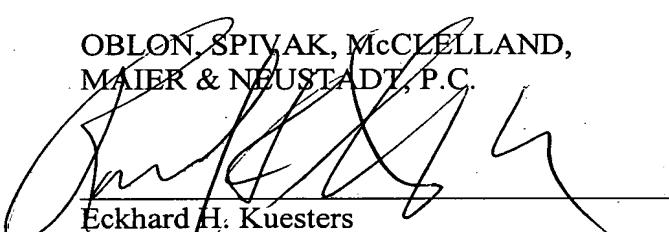
27 under 35 U.S.C. §103(a) as being unpatentable over Rinne in view of Stott should be withdrawn.

In addition, as new Claim 28 depends on Claim 1 and new Claim 29 depends on Claim 22, these new claims are believed to patentably define over Rinne and/or Stott for the reasons noted above.

As no other issues are believed to remain outstanding relative to this application, it is believed to be clear that this application is in condition for formal allowance and an early and favorable action to this effect is, therefore, respectfully requested.

Respectfully submitted,

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